

U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

Contact
dashed where gradational
or approximately located

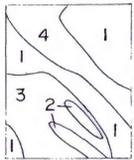
Fault
dashed where uncertain
dotted where concealed
U-upthrown side
D-downthrown side
arrows indicate
possible horizontal movement
↓ arrow indicates
observed dip of faultplane

anticline syncline
Axis of fold showing
direction of plunge

inclined vertical overturned
Strike and dip of strata

inclined vertical
Strike and dip of foliation

Direction of downward
movement of landslide



INDEX TO SOURCE
OF GEOLOGY

1. Fiedler, 1944 * †
2. Dickinson, 1959 *
3. Wiebe, 1970 * †
4. T.W. Dibblee Jr.,
fieldwork, 1972

* local field checks
by T.W. Dibblee Jr., 1972
† local field checks
by D.C. Ross, 1973
(pre-Tertiary rocks)

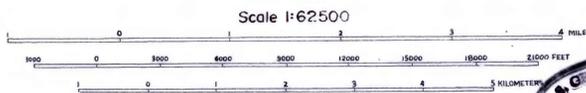
References:

Thorup, R.R., 1943, Type locality
of the Vaqueros Formation in Calif.
Div. Mines Bull. 118, p. 463-466;
Fiedler, W.M., 1944, Geology of
the Jamesburg quad, Monterey
Co., Calif. Cal. Jour. Mines & Geol.
State Min. Rpt. XI, v. 40, n. 2,
p. 177-257; Dickinson, W.R.,
1959, Tertiary stratig. of Church
Creek area, Monterey Co., Calif.
Cal. Div. Mines & Geol. Spec. Rpt.
86, p. 25-44; Wiebe, R.A., 1970,
Relations of granitic and gabbroic
rocks, northern Santa Lucia Range,
Calif. Geol. Soc. Amer. Bull. v. 31,
p. 105-116



INDEX TO 7 1/2 MINUTE
QUADRANGLE BASE MAPS
SCALE 1:24000

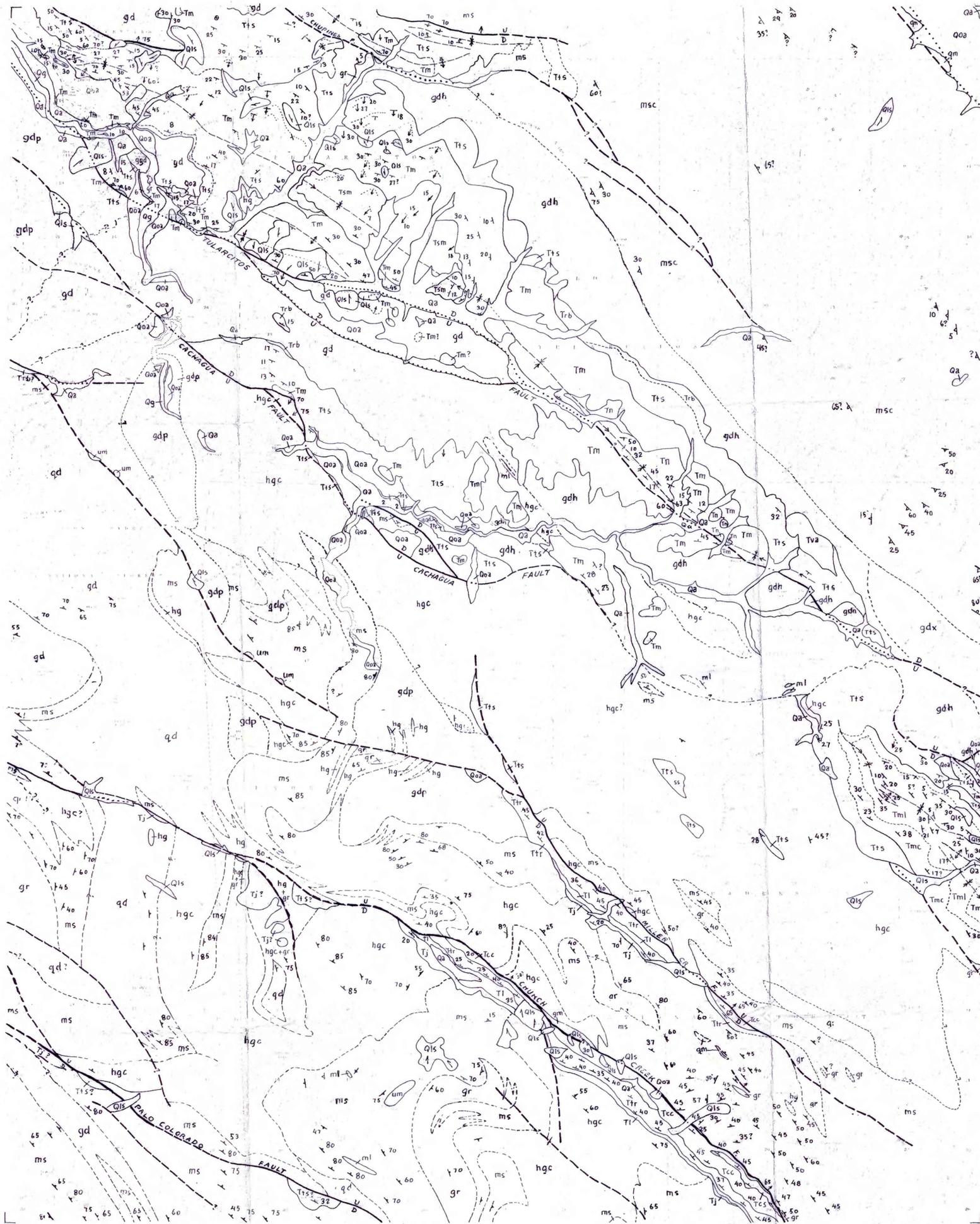
Base from U.S.G.S. Topographic Series: CHEWS
RIDGE, RAN A CREEK, CARMEL VALLEY
and VENTANA CONES, CALIF. 1950 Contour
Interval 40 feet. Comp. Memo Part. Base
Map Unit. (G-12)



COMPILED BY THOS. W. DIBBLEE JR. 1972
Drafted by G. J. Edmonston



GEOLOGIC MAP OF THE JAMESBURG QUADRANGLE, CALIFORNIA



Qg Qa	Surficial deposits Qg, stream-channel sand and gravel Qa, alluvium (gravel, sand and clay)	Quaternary
Qls	Landslide debris	Pleistocene
Qoa	Older alluvium	
UNCONFORMITY		Pliocene
Tn	Unnamed non marine sandstone and siltstone	
Tsm	Santa Margarita marine white sandstone	Miocene
Tm	Monterey Shale (marine) Tm, upper part; siliceous shale, upper Miocene Tml, lower part; soft, fissile and thin bedded siliceous shale, middle Miocene Tmc, clay shale and soft fissile shale, middle Miocene	
Tml Tmc		
Tfs Tva	Marine sandstone (Vaqueros-Temblor Sand- stone of Fiedler, 1944; middle & lower? Miocene) Tfs, sandstone Tva, basic andesitic flows	Tertiary
Trb	Unnamed redbeds (non marine sandstone siltstone and conglom.)	
UNCONFORMITY		Oligocene
Tcc Tcs	Church Creek Formation of Dickinson, 1959 (marine, Oligocene?) Tcs, sandstone Tcc, siltstone	
Ttr	The Rocks Sandstone of Thorup, 1943 (marine sandstone upper Eocene)	Eocene
Tl	Lucia Shale of Thorup, 1943 (middle Eocene)	
Tj	Junipero Sandstone of Thorup, 1943 (lower Eocene)	
UNCONFORMITY		MESOZOIC
gr gd gdh gdx gdp hg um	Granitic rocks gr, quartz monzonite, leucocratic jd, granodiorite gdh, granodiorite, with hornblende gdx, granodiorite, with hornblende & phenocrysts of pink feldspar gdp, granodiorite, with phenocrysts of feldspar gd, quartz diorite hg, heterogeneous granitic complex (mixtures of granitic rocks and metasedimentary rocks)	
hg	Hornblende gabbro-diorite	MESOZOIC OR OLDER
um	Ultramafic rocks	
ml ms msc	Metasedimentary rocks ml, marble ms, schist-gneiss msc, schist	

(200)
R290
no. 74-1021

This map is preliminary and has not
been reviewed for conformity with
U.S. Geological Survey standards
and nomenclature.